ASG Adsorbent Media

Description:
ASG is a granular arsenic adsorbent supplied in service exchange vessels for adsorption of metals from drinking water, industrial wastewater, contaminated ground water and storm water runoff. While its primary application is removal of arsenic from these waters, it has also been shown to remove antimony, cadmium, copper, lead, vanadium, and zinc. ASG removes As(III) and As(V) species.

The number and size of service vessels needed depend on influent flow rate, influent contaminant concentration, and effluent requirements. Service vessels are available in several sizes to accommodate a wide range of flow rates. Influent pretreatment may be necessary for efficient and effective use. Examples of pretreatment include pH adjustment and filtration. Service exchange vessels and media must be protected from freezing during shipment to prevent damage to the vessel and its internal components.

ASG tightly binds adsorbed arsenic, however, the user is responsible to evaluate spent media according to federal, state and local regulations to determine whether classification as hazardous waste warranted. If so, the spent media must be handled in accordance with applicable environmental protection regulations.

Chemical Properties

Form (as shipped)	White to off-white granules
Water Solubility	Insoluble
Typical Capacity	Dependent on inlet concentration, pH and other factors. Evoqua can estimate capacity based on water quality analysis.

Physical Properties

Particle Size	16 X 60 mesh / 250 X 1190 micron
Media Density	40-45 lb / cu.ft.

Operating Conditions

Operating pH Range	4 to 10
Typical Service Flow Rate	1.5 – 2.0 gpm / cu.ft.
Empty Bed Contact Time (EBCT)	3.5 – 5 minutes
Maximum Operating Temperature	120°F (limitation of service vessel)

Note: Periodic backwash may be needed during operation if excessive pressure drop develops.

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